## CLAIMS

What is claimed is:

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1. In a toilet of the type having a trapway, the trapway extending between a bowl opening and an outlet, the trapway having a curved water dam region extending from the bowl opening to above the bowl opening to a down leg, the improvement comprising:

the down leg slopes in a rearward direction from its top to an essentially horizontal baffle extending forward from a rear wall of the down leg adjacent a lower portion of the down leg, the lower portion of the down leg being linked to an out leg communicating with the outlet.

- 2. The toilet of claim 1, wherein the trapway has a circular cross-section throughout the curved water dam region.
- 3. The toilet of claim 1, wherein the curved water dam region includes a dam down leg radius adjacent the down leg between about 1.5 and 4.0 inches.
- 4. The toilet of claim 3, wherein the dam down leg radius is between about 2.25 and 3.5 inches.
- 5. The toilet of claim 1, wherein the out leg is essentially horizontal.
- 6. The toilet of claim 5, wherein at least a portion of the out leg is straight.
- 7. The toilet of claim 1, wherein the baffle has a ledge length of between about 0.5 and 2.5 inches measured from the rear wall of the down leg.
  - 8. The toilet of claim 7, wherein the ledge length is between about 0.7 and 1.5.
  - 9. The toilet of claim 1, wherein the baffle has a ledge height of between about 1.5 and 3.0 inches measured from a bottom of the out leg.
    - 10. The toilet of claim 9, wherein the ledge height is between about 1.75 and 2.5 inches.
- 35 11. The toilet of claim 1, wherein at least a portion of the down leg is straight.

- 12. The toilet of claim 1, wherein the down leg slopes less than 15 degrees from vertical.
- 13. The toilet of claim 12, wherein the down leg slopes between about 1 and 8 degrees from vertical.
- 14. The toilet of claim 1, wherein the trapway has a minimum ball passage of about 2 inches.
- 15. The toilet of claim 1, wherein the up leg has a circular cross-section.
- 16. The toilet of claim 1, wherein the up leg has a flat interior wall.
- 17. The toilet of claim 1, wherein the out leg has a circular cross-section.
- 18. The toilet of claim 1, wherein the out leg has a flat interior wall.

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